

10/519388 #2

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Attorney Docket # 1739-10PUS

Patent

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re National Phase PCT Application of  
Helmut SCHMIDHAMMER et al.

Int'l PCT Serial No.: PCT/EP2003/006866

Int'l Filing Date:: 27 June 2003

For: Morphinan Derivatives The Quaternary  
Ammonium Salts Thereof Substituted In  
Position 14, Method For Production And  
Use Thereof

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop PCT  
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P.O. Box 1450  
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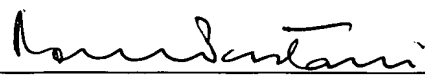
S I R:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO/SB/08a. Copies of the listed documents are also enclosed.

In accordance with 37 C.F.R §§1.97(g) and (h), the filing of this Information Disclosure Statement should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56(b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant(s) reserve(s) the right to prove that the date of publication is in fact different.

It is respectfully requested that the above information be considered by the Examiner and that the copy of the enclosed Form PTO/SB/08a be returned indicating that such information has been considered.

Respectfully submitted,  
COHEN, PONTANI, LIEBERMAN & PAVANE

By   
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Dated: December 23, 2004

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Substitute for Form 1449/PTO			<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)			Application Number	10/519388
			Filing Date	
			First Named Inventor	Helmut SCHMIDHAMMER
			Art Unit	
			Examiner Name	
Sheet	1	of	2	Attorney Docket Number 1739-10PUS

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind-Code <sup>5</sup> (if known)				
		UK 1,300,419	12/20/72	W. R. Buckett et al.		
		EP 0 250 796	1/7/88	E. I. Du Pont De Nemours and Co.		
		DE 3412727 A1	10/17/85	A. Gleich		
		EP 0 030 685 A2	6/24/81	R. K. Razdan et al.		
		WO2004/005294 A2	1/15/04	H. Schmidhammer et al.		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). \* See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \* Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.**

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Substitute for Form 1449/PTO		<b>Complete if known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	107519388
		Filing Date	
		First Named Inventor	Helmut SCHMIDHAMMER
		Art Unit	
		Examiner Name	
Sheet 2 of 2	Attorney Docket Number	1739-10PUS	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Chen-Yu Cheng, et al., "N-Cubylmethyl Substituted Morphinoids as Novel Narcotic Antagonists", <u>Bioorganic &amp; Medicinal Chemistry</u> , Vol. 4, No. 1, pp 73-80, 1996.	
		A. Coop, et al., "Delta Opioid Binding Selectivity of 3-Ether Analogs of Naltrindole", <u>Bioorganic &amp; Medicinal Chemistry Letters</u> , 9 (1999) 3435-3438.	
		J. Schütz, et al., "Synthesis and Biological Evaluation of 14-Alkoxymorphinans. 17. Highly $\delta$ Opioid Receptor Selective 14-Alkoxy-Substituted Indolo- and Benzofuromorphinans", <u>J. Med. Chem.</u> 2002, 45, 5378-5383.	
		H. Schmidhammer, et al., "Synthesis and Biological Evaluation of 14-Alkoxymorphinans. 1. Highly Potent Opioid Agonists in the Series of (-) - 14 Methoxy-N-methylmorphinan-6-ones", <u>J. Med. Chem.</u> , 1964, 27, 1575-1579.	
		P. Klein, et al., "O <sup>3</sup> -(2-Carbomethoxyallyl) Ethers of Opioid Ligands Derived from Oxymorphone, Naltrexone, Etorphine, Diprenorphine, Norbinaltorphimine, and Naltrindole. Unexpected O <sup>3</sup> -Dealkylation in the Opioid Radioligand Displacement Assay", <u>J. Med. Chem.</u> , 1992, 35, 4589-4594.	
		P.S. Portoghese, et al., "Synthesis of Naltrexone-Derived $\delta$ -Opioid Antagonists. Role of Conformation of the $\delta$ Address Moiety", <u>J. Med. Chem.</u> , 1994, 37, 579-585.	
		C. W. Funke, et al., "A <sup>1</sup> H and <sup>13</sup> C Nuclear Magnetic Resonance Study of Three Quaternary Salts of Naloxone and Oxymorphone", <u>J. Chem. Soc. Perkin Trans. II</u> , 1986, Pages 735-738.	

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